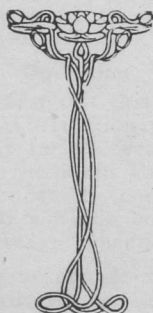


LETHBRIDGE NORTHERN  
IRRIGATION DISTRICT

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Fourth Annual Report  
AND  
Financial Statement  
1924



*Issued to the Ratepayers by the Board of Trustees*



# THE LETHBRIDGE NORTHERN IRRIGATION DISTRICT

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## FOURTH ANNUAL REPORT AND FINANCIAL STATEMENT 1924

### *Trustees:*

T. W. CROFTS      E. H. HANN  
T. H. WYMAN

### *Secretary-Treasurer:*

G. H. DUNNING

### *Project Manager:*

P. M. SAUDER

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Lethbridge, Alberta, January 16th, 1925.

## REPORT OF TRUSTEES

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To the Ratepayers, Lethbridge Northern Irrigation District:

Pursuant to the provisions of Section 28B of the Irrigation District's Act, requiring the Trustees of every Irrigation District to submit a report, we beg to submit herewith a resume of the affairs of the District during the season of 1924. The details of the various departments and activities will be dealt with more fully in the report of the officers directly in charge of same, which reports are incorporated herewith, and we shall deal only with matters of policy as they effect the administration of the District's affairs, and with various phases of the work in their larger aspects.

### **Operation**

The system was given the first test this year of its ability to handle a full working load under normal irrigation requirements. We are pleased to say that at no point did any serious weakness develop, and aside from a few cases of seepage along the Main Canal, which are natural consequences, and to be expected under the conditions prevailing, the system has demonstrated, under actual working conditions, that it is capable of supplying the water for the acreage dependent thereon.

With a very few exceptions no complaints against the service of water have been received. In practically all instances where complaints have been received, the difficulty has usually been traceable to insufficient notification on the part of the water user, or some failure to properly observe the operating rules and regulations.

### **Finances**

The financial program, as set forth in the debenture by-law, provided for the carrying of all overhead and operating expenses from the capital obtained from the original debenture sale for one year of operation after completion of the works. That year being 1923, during which time the flood occurred and rendered the system inoperative over practically the entire season, caused a heavy financial deficit and set the District back a whole year in its producing power.

Realizing this, your Trustees made arrangements with the Provincial Government whereby they would assume the payment of the interest on the debentures. After considerable negotiations with various institutions, sufficient advances have been secured against the assessment roll from the Bank of Montreal for defraying the current expenses for operation. These credits were secured by the issuance of short term notes, as shown in the financial statement.

For the purpose of securing funds for additional capital outlays, including right of way, buildings, betterments to canals, telephone system, additional structures, etc., arrangements were made with the Provincial Government whereby they would accept short term debentures issued from time to time as the requirements arose.

The implementing of these methods of financing the District, especially at a time when credits have been so widely curtailed, and capital so universally restricted, called for the exercise of much negotiation and deliberation on the part of the Board, and we trust that our action in these matters will have your approval as a solution of a very difficult problem.

In the matter of financing for the present year's needs, your Trustees have instituted negotiations with the Provincial Government, and these matters are now in process of adjustment. The Government has been asked to work out some plan whereby the burden of rates for the first few years of operation can be lightened so as to enable the farmer to establish himself under irrigation and to make our project sufficiently attractive to encourage the colonization of the excess lands. These matters will be discussed in greater detail at the general meetings.

We would take this opportunity of expressing our appreciation of the splendid way in which the Provincial Government has co-operated with us in supplying engineers to assist the farmers in laying out their farm ditches. The work of Mr. Giffen and Mr. Eisenhower has filled an urgent need, without which the farmers would have been very severely handicapped. During the height of the season when the demand was greater than these men could handle, the Department of Interior was asked for assistance and they very generously responded.

### **Rates**

Very early in the season it became evident that the situation in connection with the payment of rates was the most serious which the District was called upon to face. The Manager and the Chairman went to Calgary and had a conference with the Premier and Mr. Charlesworth concerning the attitude of the Government in the collection of rates. We received no assurance then, nor have we received any since, that the present rate of \$5.25 would be reduced, but we were advised that we should proceed to collect the rate wherever possible.

As shown by the financial report, the success of our efforts in rate collection has not been very encouraging. The most important causes for this inability of the farmer to meet the rates may be enumerated as follows: Too large holdings, lack of finances, and too much dependence upon the rainfall. The first two are, by virtue of circumstances, largely beyond their control, but the last is one which is only too common in all irrigation districts, and in the case of our own District, one which occasioned the loss of a good many thousands of dollars which could have been prevented by earlier attention to irrigation of the crops that were seeded instead of to the seeding of still larger acreage.

It is hoped that the lessons learned in 1924 in this respect will be of value in the future. There is no season, either wet or dry, when the addition of irrigation water at the proper time will not materially increase the yield.

We feel confident that with the lessons taught us in 1924 and above all, the experience which we have gained in the distribution of water, we can look forward with confidence to 1925. We are hopeful that we shall be able to continue our negotiations with the Provincial Government to a successful conclusion, and an agreement be reached whereby the rate may be adjusted and equalized in proportion to the earning power of the land. With this accomplished, there is no reason to look to the future with other than a feeling of optimism and confidence in the future success of the District.

Respectfully submitted,

T. W. CROFTS,

E. H. HANN,

T. H. WYMAN,

Trustees.



# REPORT OF THE PROJECT MANAGER

Lethbridge, Alberta, January 10th, 1925.

To the Board of Trustees,

Lethbridge Northern Irrigation District.

Gentlemen:—

I submit herewith for your consideration, a report for the year 1924.

## Executive Staff

There has been very little change in the organization or the personnel of the executive staff during the past year, but some reductions have been made in salaries and in the number of officials.

No Assistant Project Manager has been employed during the past year, and the present Project Manager is paid a lower salary. The Secretary-Treasurer's salary remains unchanged though he has added responsibilities and duties in connection with the assessment and rate collections. The Accountant's salary has been reduced. No Stenographer has been employed during the past year, this work being done by the Secretary and the Accountant. The positions of Hydrometric Engineer and Draftsman have been combined and the work is now done by one man. The staff of Water Masters has been reduced from six to four, with a lower salary for new appointments to this position.

It may be necessary to make a re-arrangement or addition in the Water Masters next spring, in order to properly handle the territory east of Keho reservoir.

The personnel of the present executive staff and the salaries paid each official are as follows:

Name	Position	Salary per month
P. M. Sauder .....	Project Manager .....	\$375.00
G. H. Dunning .....	Secretary-Treasurer .....	200.00
V. Ludgate .....	Accountant .....	125.00
A. Thomson .....	Hydrometric Engineer .....	165.00
G. F. Hilliard .....	Water Master .....	150.00
C. S. Clendenning .....	Water Master .....	150.00
A. J. Branch .....	Water Master .....	150.00
W. R. Brookes .....	Water Master .....	125.00

The last four officials are supplied residences, rent free.

## Ditch Riders and Other Employees

During the operating season, twenty-one ditch riders were employed to clean ditches, patrol canals, regulate gates and do the work necessary to transport and deliver water to the water users.

While this is only a low salaried position, it calls for a capable man both physically and mentally. He may at any moment be called upon to decide very vital matters, or to do several hours of strenuous physical exertion. His work can only be outlined in a general way and he must be relied upon to do many things at the time and in the manner that seems proper to him. Among other things a ditch rider must be very tactful and firm in dealing with water users.

The selection of the ditch riders is left almost entirely to the Water Masters, but they have been asked to give local residents the preference where they could qualify. The Water Master is given authority to discharge or suspend a ditch rider at any time, and is held responsible to see that satisfactory service is given by the ditch riders. I am very pleased

to say that all of the men employed as ditch riders during the past year were local men and that their services were in almost all cases, very satisfactory.

While the teamsters and labourers do not come in contact with the water user very much, those employed by the District must not only be capable, but must be men who will go ahead and do their work without a boss or foreman over them. They must know the locality they are working in, the ways of the country and what to do in unforeseen emergencies.

The schedule of wages for ditch riders and teamsters is as follows:

\$90.00 to \$110.00 per month, with horses (April to October).

\$70.00 to 80.00 per month, without horses (April to October).

\$40.00 to 50.00 per month, in winter.

A house or lodging place is provided by the District.

Water Masters are authorized to pay what is necessary for temporary help by the hour or day.

### **Team Work**

Last spring, a number of horses were purchased and during the past season most of the team work has been done with our own horses. After allowing for the keep of the horses for the whole year, shoeing, repairs to harness, depreciation on horses, harness and wagon, and wages of teamster, the work cost us from \$3.90 to \$5.00 per day, and this cost can be reduced as we grow more feed and pasture. The horses were purchased locally, some from water users who allowed part of the purchase price to be applied to their rates. Twenty-three horses were purchased at an average cost of a little over \$100.00 each.

Not only is it more economical to own the horses, but there is a very great advantage in having horses that are used to the work, available at all times.

### **Expenditures During 1924**

While the expenditures during 1924 exceeded the estimate by a small percentage in a few items, the expenditures were generally somewhat lower than estimated.

Attached to this report is a schedule showing the appropriation for 1924 and the expenditures during 1924. A brief outline of the expenditures under each heading will be given here, and if you or any ratepayer wishes more details, they will be cheerfully supplied.

**Additional Structures.** This item is made up almost entirely of payments to H. H. Boomer, in payment of his final estimate, the award of the Judge who arbitrated his claim for additional payments, and the costs of arbitration proceedings.

**Additional Buildings.** This expenditure was made to provide residences, garages and barns for water masters, and houses and barns for ditch riders and sites for same. Lumber was purchased in carload lots and there is quite a lot on hand for future buildings. Materials were purchased by tender and the labour was done by contract. The six-room water master houses cost from \$2400.00 to \$2500.00 each. The water master barns with lofts cost about \$550.00 each, and the water master two stall garages about \$330.00. The four-room ditch rider houses cost about \$1650.00 each and the ditch rider barns about \$250.00 each.

**Betterments to Canals.** This expenditure was for rip-rapping canal bank and river bank near the dam, to protect it from damage by floods. The right hand down stream wing wall of the dam was also heightened.

**Betterments to Structures.** This expenditure was for the construction of a log, rock and gravel crib to protect pedestals under the steel section of the flume over Oldman River.

**Re-building Canals.** This expenditure was for work on main canal banks to reduce leakage and the construction of sweat ditches to stop the spread of seepage.

**Re-building Structures.** This expenditure was in payment of the balance due A. G. Creelman & Co., for re-building the damaged section in the flume over Oldman River.

**Right-of-Way.** This is the total of expenditures for acquiring right-of-way for canals.

**Telephone System.** This expenditure was for the construction of a new private line to join the staff in the Eastern portion of the District with head office, and for additions to the existing line in the Western portion of the District. Arrangements were made to use existing Provincial Government pole lines as much as possible.

**Equipment and Furniture.** This item covers the expenditures for horses, harness, wagons, automobiles, cook cars, water tanks, fresnos, slush scrapers, implements, tools, etc. The present value (after allowing for depreciation) of equipment and furniture purchased during 1924 and previously, is \$17,270.73.

**Macleod Unit (M. & O.).** This item includes the expenditures for wages, automobile expenses, board, lodging, horse keep, rents, etc., in this unit. Weed cleaning cost \$285.00.

**Monarch Unit (M. & O.).** Weed cleaning in this unit cost \$1148.00. Removal of drift \$952.00. The balance is the usual M. & O. expenditures.

**Commerce Unit.** Weed cleaning cost \$658.00 in this unit. Removal of drift \$1486.55. The balance is the usual M. & O. expenditures.

**Picture Butte Unit.** Weed cleaning cost \$190.00 in this unit. Removal of drift \$250.00. The balance is the usual M. & O. expenditures.

**Albion Ridge Unit.** This includes the usual M. & O. expenditures.

**Turin Unit.** This includes the usual M. & O. expenditures.

**Materials for Minor Repairs.** This includes all expenditures for lumber, cement, etc., used for repair work.

**Easement Rentals.** This is the total of the allowances made for the use of land for ditches. It is charged to this account only when the rates are paid.

**Insurance.** This includes the premiums on fire insurance policies on timber structures, buildings, lumber and equipment.

**Salaries.** These are head office staff salaries.

**Travelling Expenses.** These are the travelling expenses of members of head office staff.

**Trustees Fees, etc.** This includes the expenditures in connection with meetings and elections and the fees and mileage of the trustees.

**Solicitor's Fees, etc.** This includes all expenditures in connection with legal matters and the fees of the Solicitor, except the expenses in connection with the Boomer case.

**Rents, Light, etc.** This includes expenditures for rent, light, janitor, etc., for head office.

**Auto Expense and Hire.** This is the total expenditure for the operation of automobiles used by head office staff.

**Stationery, Printing, etc.** This is the total expenditure for stationery, forms, and office supplies for head office and all the staff.



**Phones and Telegrams.** This is the total expenditure for telephone and telegraph services. It includes the pole rental and exchange service for the District's private lines.

**Interest and Handling Charges.** This includes the interest on debentures and bank loans, and the cost of cashing the debenture coupons.

**Supervision of Railway Construction.** This includes all expenditures for extra employees and expenses in watching the District's interests during the construction of the Kipp-Turin branch of the Canadian Pacific Railway.

**Miscellaneous.** This includes expenditures of small sums that do not come under any of the headings shown above. Part of the expenditures were in connection with surveying farm ditches.

**Farm Operations.** This is the net amount charged to farming after deducting the sums received for produce and the sums charged to M. & O. The farm produce on hand at the end of the year is valued at \$1,532.50. The deficit is therefore \$259.49. This is offset by fall irrigation, new hay meadow, fencing and pasture that will help to make a revenue in future.

**Refund to Provincial Treasurer.** This is the sum paid to the Provincial Treasurer to reimburse the Province for the interest paid for the District during 1923.

#### **Automobile Costs**

A special record of the cost of operating the District automobiles has been started. Every employee using a District car is required to send in a record of cost data at the end of every month. This data has been summarized and will be attached to this report.

These summaries are compiled and sent out to the Water Masters and Trustees every two or three months. This study of costs has a big influence toward economy.

When a car is finally sold or scrapped, the average cost per mile will be determined with depreciation and interest on investment as well as cost of operation included.

#### **Records of Flow in Canals**

Gauging stations have been installed on the main canal, branch canals and secondary canals, and records have been taken throughout the past year. In most cases staff gauges are observed once daily by ditch riders, but at some of the more important stations automatic continuous recorders have been installed. A Stevens continuous recorder was purchased and installed near Willow Creek crossing on the main canal. It saves the time of the ditch rider and gets a much better record. It has given good satisfaction.

The Federal Government has co-operated in getting records to determine the seepage in the upper section of the main canal, and the losses in Keho reservoir. These records will be compiled and studied during the winter.

## Water Deliveries

The ditch riders are required to keep a record of the water delivered to each user. The following schedule gives a summary of the water delivered in each Water Master unit and the area irrigated during 1924:

Unit	1924 Crop		Fall Irrigation		Total for Year	
	Quantity of water	Area covered	Quantity of water	Area covered	Quantity of water	Area covered
	(ac ft)	(acres)	(ac ft)	(acres)	(ac ft)	(acres)
Macleod ....	2,087	1,100	313	275	2,400	1,375
Monarch ....	7,763	5,000	3,445	2,000	11,208	7,000
Commerce ..	15,458	7,800	4,996	2,918	20,454	10,718
Picture Butte	10,858	6,400	3,832	3,832	14,690	10,232
Albion Ridge..	3,600	2,345	1,965	2,000	5,565	4,345
Turin .....	12,000	7,346	4,215	4,000	16,215	11,346
Totals .....	51,766	29,991	18,766	15,025	70,532	45,016

This is really a good showing for the first year.

It is worthy of note that 15,025 acres have received a bountiful fall irrigation. The records also show that the amount of water used is heavy and will have a material effect on 1925 yields. A warning against over-irrigation is also in order to prevent water logging.

## Crop Census

At the suggestion of the Irrigation Council detailed reports of the crops grown in the District have been obtained by the water masters and ditch riders. Some of these reports are still outstanding, but those that have been received have been summarized by the Council. This summary and comments will be attached to this report.

While the yields are in a general way rather low, they are fairly good for the first year of irrigation and are much better than they would have been without irrigation. We can, however, and must better the 1924 crop very much in future.

The fullest co-operation of the Board and water users is very desirable in collecting crop data. It is very valuable and interesting, and it is by continually studying production and prices that we learn what are the profitable products. You are therefore earnestly asked to assist the staff in getting the data as promptly and economically as possible. Do not forget that if you increase the work of the staff, you increase the expenditures of the District, and therefore the water rate.

## Kipp-Turin Branch of Canadian Pacific Railway

Early in the year, the Canadian Pacific Railway approached the District for an agreement in connection with the construction of the Kipp-Turin branch of the railway. After considerable deliberation, an agreement was drawn up and executed by the proper officials of the Company and the District.

Briefly, the main provisions of the agreement were that the District consented to the new railway crossing the canals of the District, on the understanding that the Railway Company would provide proper bridges and culverts, and that the Railway Company would pay the rates on the irrigable land taken into the right of way and on land rendered non-irrigable outside of the right of way.

The District could not, of course, make any agreement regarding the purchase of right of way. The agreement did specify that the Company must provide crossings for farm ditches, and the size of these culverts must be at least as large as specified by the District's Manager. It did not,

in fact could not, take away the owner's rights in matters relating to farm ditch crossings.

Owing to the fact that the Manager and water masters were too busy to give proper attention to the matter, Mr. G. N. Houston was employed on a part time basis to watch the District's interests during the construction of the railway. Mr. A. Thomson was delegated to do the necessary surveying in connection with this work.

The right-of-way of the railway contains 216.4 acres of irrigable land, and the construction of the railway has rendered 59.9 acres non-irrigable. The Company paid the rates for 1924 on these areas, in December, and the ratepayers affected will be credited with their share of the rates paid by the Company.

It is expected that the construction of this line will be completed in the spring and that it will be put into operation about the first of July, 1925.

### **Supplementary Auditor's Report**

While preparing this report, the Manager found evidence that his signature had been forged to certain accounts and pay rolls, and as a consequence moneys had been paid out improperly. This is being thoroughly investigated and the auditor is to submit a supplementary report at a later date.

### **Estimate for 1925**

Reference has been made under the heading of "Expenditures during 1924" to a schedule showing the appropriation and expenditures during 1924. This schedule also shows the Manager's estimate of expenditures for 1925. The Manager will be glad to consider suggestions and criticisms. In fact, suggestions before hand are worth a great deal more than criticisms after the expenditures are made. A brief discussion of the 1925 estimate will be given here.

**Additional Buildings.** This is to provide buildings for water master headquarters in Monarch and Commerce units, a house and barn for the ditch rider at Monarch headgates and to complete the ditch rider house and barn at Iron Springs. Other buildings should be erected but they are not included so as not to make the rate too high. Those included are necessary in order to get the staff located at the proper places for satisfactory service.

**Right-of-Way.** This is to cover payments for several parcels of right-of-way that have not been settled for.

**Telephone System.** About four miles of poles and sixteen miles of wire will be required to connect up the balance of the field staff to the existing telephone system.

**Equipment and Furniture.** This estimate is made up as follows: Four new autos \$2000.00; 10 horses \$1200.00; 4 wagons and accessories \$700.00; 6 sets of team harness \$450.00; farm implements \$800.00; grader \$250.00; cook car \$125.00; small tools \$75.00, and furniture \$100.00. Total \$5,700.00.

**Macleod Unit (M. & O.).** This is based on 1924 expenditures. An additional sum is provided so that some work can be done on the main canal between Oldman River and Willow Creek to reduce seepage and stop erosion.

**Monarch Unit (M. & O.).** This is based on 1924 expenditures. Do not expect as much expense for weed cleaning and drift removal.

**Commerce Unit (M. & O.).** This is based on 1924 expenditures, with a decrease in estimate for weed cleaning and drift removal.

**Picture Butte Unit (M. & O.).** This is based on 1924 expenditures with an increase in estimate for rock hauling and rip-rapping.

**Albion Ridge Unit (M. & O.).** This is based on 1924 expenditures with an increase in estimate for rip-rapping and additional demand for water.

**Turin Unit (M. & O.).** This is based on 1924 expenditures with a decrease in allowance for wages.

**Materials for Minor Repairs.** This is based on 1924 expenditures.

**Easement Rentals.** This is based on area occupied by ditches and maximum rate allowed.

**Insurance.** Double the annual premium is provided so that advantage can be taken of tri-annual rate, if granted.

**Seepage Damage.** This is based on the Maunsell case which is included in this estimate, as the award has not yet been paid. It is not expected that damages will total the estimate, but provisions must be made for possible amount. An account of the Maunsell case will likely appear in the next issue of the Irrigation Review.

**Unforseen.** This sum is included so that funds will be available for unforeseen emergencies such as washouts, failure or damage of structures, greater demand for water and expenses in connection with spillways.

**Salaries.** This is greater than 1924 expenditures to allow for possible increases in salaries and additions to staff.

**Travelling Expenses.** This is based on 1924 expenditures with an allowance for more travelling by Manager and Secretary-Treasurer.

**Trustee's Fees, etc.** This includes the cost of elections and meetings, as well as fees and mileage of trustees. It is based on 1924 expenditures.

**Solicitor's Fees, etc.** This is based on 1924 expenditures with an increase to provide for legal expenses in the collection of rates.

**Rents, Light, etc.** This is based on present rates for these items.

**Auto Expense and Hire.** This is based on 1924 expenditures.

**Stationery, Printing, etc.** This is based on 1924 expenditure with a small increase for additional stationery.

**Phones and Telegrams.** This is based on 1924 expenditures with an increase for phones and lines added during 1924 and to be added during 1925.

**Interest and Handling Charges.** This is determined from the total of the debentures and the rate of interest payable on same.

**Miscellaneous.** This is based on 1924 expenditures with an allowance for unforeseen expenditures.

**Farm Operations.** This is included to provide a fund for improving lands owned by the District. It is to cover expenditures for fencing, seeding and cropping until the land can be put on a paying basis. No extensive operations are contemplated.

**Payment on Debentures.** This item is to provide funds to meet the payment of a debenture falling due on December 31st, 1925.

**Grand Total for 1925.** It should be noted that even after including \$30,000.00 for seepage damage and \$32,002.67 for payment of the maturing debenture, the total estimate of expenditures for 1925 is less than the expenditures during 1924.

**Note.** This estimate has not been dealt with by either the Board of Trustees or the Irrigation Council and may therefore be changed.

### Optimistic Outlook

We have some difficult problems ahead of us, but let us face them with a smile. They can be solved and ultimately the project will be a success. 1924 demonstrated the need of irrigation. Where water was applied at the proper time, the results were good. Each year more acreage can be added and the yield can be increased until ultimately good profits will be realized.

It is very encouraging to see that a large institution like the Canadian Pacific Railway Company has faith in the success of the District, as evidenced by the building of the Kipp-Turin branch. The Provincial Government has promised assistance in colonization, and there are good prospects of a sugar beet factory in the vicinity. The confidence shown by these large concerns should encourage us to stay with the project.

Then, what is perhaps the most encouraging of all, is the present price of grains and the tendency of nearly all farm products to sell for better prices. The Lethbridge Northern farmer has good reason to feel optimistic at the present time.

Respectfully submitted,

P. M. SAUDER,

Project Manager.

## FARM CENSUS REPORT FOR YEAR 1924

### Lethbridge Northern Irrigation District.

#### Irrigable Land, Irrigated

	Acres	Yield	Average	Gross value	Ac. value	Av. price
Alfalfa .....	414	690	1.6	6,900.00	16.00	\$10.00 ton
New Alfalfa .....	268					
Green Feed .....	1,924	1,668	.8	16,680.00	8.00	10.00 ton
Hay .....	302	244	.8	2,684.00	8.80	11.00 ton
Winter Wheat .....	67)	800)				
Spring Wheat .....	15,774)	210,537)	13.3	284,224.00	17.95	1.35 bus
Oats .....	2,246	52,339	23.	26,169.00	11.50	.50 bus
Barley .....	513	8,891	17.2	6,668.00	12.90	.75 bus
Flax .....	244	1,638	6.7	3,276.00	13.40	2.00 ton
Corn .....	33	43	1.1	258.00	6.60	6.00 ton
Potatoes .....	51	295	5.8	7,670.00	150.80	26.00 ton
Sugar Beets .....	2	15¼	8.	122.00	64.00	8.00 ton
Timothy .....	20	nurse				
Sunflowers .....	1					
Fall Rye .....	53	25	.5	28.00	.55	1.10 bus

21,912 acres irrigated  
100,000 acres possible of irrigation.

\$354,679.00      \$16.19



### Irrigable Land—Not Irrigated

	Acres	Yield	Average
Alfalfa .....	15	0	
New Alfalfa .....	13	0	
Green Feed .....	1,222	449	.3
Hay .....	17	$\frac{1}{2}$	
Winter Wheat .....	100	350	3.5
Spring Wheat .....	13,920	77,589	5.5
Oats .....	994	9,414	9.4
Barley .....	508	2,151	4.2
Flax .....	258	126	.5
Corn .....	11	5	.5
Potatoes .....	1	$1\frac{1}{2}$	1.5
Fall Rye .....	5	10	2.

17,064 acs. not irrigated, but irrigable.

### Dry Land—Not Irrigable

	Acres	Yield	Average
Alfalfa .....	0		
New Alfalfa .....	4		
Green Feed .....	671	284	.4
Hay .....	80	$18\frac{1}{2}$	.2
Spring Wheat .....	7,734	66,261	8.5
Oats .....	491	5,228	10.6
Barley .....	144	996	6.2
Flax .....	113	360	.3
Corn .....	21	65	3.
Potatoes .....	$2\frac{1}{2}$	$1\frac{1}{2}$	.6
Fall Rye .....	55	110	2.

9,315 acres dry land not irrigable.

### Total Yield and Value of Dry Land Crops

	Acres	Yield	Average	Gross value	ac. value
Alfalfa .....	15	0	0		
New Alfalfa .....	17	0	0		
Green Feed .....	1,893	733	.38	\$7,330.00	\$3.84
Hay .....	97	19	.2	209.00	2.20
Winter Wheat .....	100	350	3.5	472.00	4.72
Spring Wheat .....	21,654	143,850	6.6	194,197.00	8.91
Oats .....	1,485	14,642	9.8	7,321.00	4.90
Barley .....	652	3,147	4.8	2,360.00	3.60
Flax .....	371	486	1.3	972.00	2.60
Corn .....	32	70	2.2	420.00	13.20
Potatoes .....	$3\frac{1}{2}$	3	.9	91.00	23.40
Fall Rye .....	60	120	2.	132.00	2.20
26,379 acres				\$213,504.00	\$8.09

The above table is the total of irrigable land farmed dry and dry land not irrigable.

### The District Results Showing How Land Used, Follows

	Irrigated acres	Not Irrigated acres	Dry Land acres	Totals acres
Cropped Land .....	21,912	17,064	9,315	48,291
Pasture, Tame .....	369	475	655	1,499
Pasture, Sod .....	2,091	3,109	5,685	10,885
Summerfallow .....	2,668	2,099	2,955	7,722
*Idle .....	374	2,494	3,117	5,985
	<hr/> 27,414	<hr/> 25,241	<hr/> 21,727	<hr/> 74,382

\*Does not include vacant quarters not farmed during 1924.

### Details of Crop by Quarter Sections, Including Both Irrigable and Non-Irrigable Land

363 quarters were cropped.

53 of which had over 20 bushels of wheat to the acre.

107 of which had under 20 and over 10 bushels of wheat to the acre.

### Details of Buildings by Quarter Sections

279 quarters have buildings.

230 of which are residences.

### Renters

107 quarters in the District were farmed by renters.

### Value of Assets

Value of buildings .....	\$441,334.00
Value of fencing .....	64,107.00
Total of fixtures .....	<hr/> 505,441.00
Value of live stock .....	223,871.00
Value of equipment .....	147,884.00
Total of assets .....	<hr/> \$877,196.00

### Live Stock in District, Enumerated

Horses 1997; Cows 828; Beef 582; Hogs 1803; Turkeys 1267; Poultry 10,843.

### Basing a 160 Acre Irrigated Farm on the General Averages for the District

Alfalfa .....	10 acres	16 tons	@	\$10.00	\$160.00
Green Feed .....	5 acres	4 tons	@	10.00	40.00
Spring Wheat .....	60 acres	798 bus.	@	1.35	1077.80
Oats .....	30 acres	690 bus.	@	.50	345.00
Barley .....	10 acres	172 bus.	@	.75	129.00
Corn .....	5 acres	5.5 tons	@	6.00	33.00
Potatoes .....	5 acres	29 tons	@	26.00	754.00
Pasture .....	35 acres				

Total revenue from crops .....\$2538.80

**Schedule Showing Comparison of Appropriation for 1924, Expenditures  
During 1924, and Estimate for 1925**

Account	Appropriation for 1924	Expenditures during 1924	Estimate for 1925
<b>Property—</b>			
Additional Structures .....	\$ 21,218.57	\$ 26,183.08	
Additional Buildings .....	24,500.00	17,648.98	\$9,769.71
Betterments to Canals .....	5,000.00	5,241.53	
Betterments to Structures .....	1,000.00	901.36	
Rebuilding Canals .....	10,000.00	2,978.95	
Rebuilding Structures .....	14,000.00	3,979.28	
Right-of-way .....	20,000.00	8,367.76	5,000.00
Fencing .....	1,500.00		
Telephone System .....	10,000.00	3,822.74	2,000.00
Equipment and Furniture .....	13,100.00	14,070.73	5,700.00
<b>Maintenance and Operation—</b>			
Macleod Unit .....	11,250.00	10,973.92	11,250.00
Monarch Unit .....	10,150.00	10,236.56	10,000.00
Commerce Unit .....	10,750.00	10,702.51	10,000.00
Picture Butte Unit .....	9,850.00	5,580.06	7,000.00
Albion Ridge Unit .....	7,650.00	5,312.33	5,750.00
Turin Unit .....	8,650.00	7,284.74	7,000.00
Materials for Minor Repairs .....	2,000.00	2,263.50	2,000.00
Easement Rentals .....	18,000.00	915.37	6,000.00
Insurance .....	1,800.00	2,038.20	3,200.00
Seepage Damages .....			30,000.00
Unforeseen .....			5,000.00
<b>General Administration and Headquarters—</b>			
Salaries .....	11,300.00	10,514.86	11,500.00
Travelling Expenses .....	1,000.00	364.10	500.00
Trustee's Fees, etc. ....	3,200.00	2,510.07	2,500.00
Solicitor's Fees, etc. ....	5,000.00	2,019.54	4,000.00
Rents, Light, etc. ....	2,400.00	2,043.07	500.00
Auto Expense and Hire .....	2,000.00	1,492.89	1,500.00
Stationery, Printing, etc. ....	1,400.00	1,298.32	1,400.00
Phones and Telegrams .....	600.00	768.18	1,000.00
Interest and Handling Charges	355,000.00	330,516.59	344,000.00
Super. of Railway Construction	3,000.00	1,183.27	
Miscellaneous .....	600.00	856.04	1,200.00
Farm Operations .....		1,791.99	1,000.00
Refund to Prov. Treasurer .....	52,680.80	52,680.80	
Payment on Debentures .....			32,002.67
Grand Totals .....	\$638,599.37	\$546,541.32	\$520,772.38

# SUMMARY OF COSTS OF OPERATING AUTOMOBILES DURING 1924.

Items	No. 6	No. 9	No. 10	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20
Gasoline per mile .....	1.8	2.2	2.3	2.9	1.8	1.9	1.7	1.9	1.8	1.9	1.6	1.8
Lubricants per mile .....	.3	.4	.7	.6	.2	.2	.2	.3	.3	.2	.1	.2
Repairs and parts per mile .....	1	5	3	15	.1	.9	.3	.4	.9	.4	.4	.6
Tires & Tire Reprs per mile .....	.8	.3		.2	.2	.7	.3	.3	.8	.3	.2	.3
Sundries per mile .....	1	.1		.9	.3	.1	.3	.2	.4	.4		
Storage per mile .....			2.2	.1				.1	.6		.2	.2
Mechanics per mile .....		.7	1.0	.9	.2	.3	.2	.5	.8	.0	.2	.4
Total Cost per Mile .....	3.1c	4.2c	6.5c	7.1c	2.8c	4.1c	3.0c	3.7c	5.6c	3.2c	2.8c	3.7c
Miles travelled .....	4,640	7,922	917	1,868	11,256	12,520	11,000	11,103	8,335	9,910	11,821	6,324
Miles per gallon gas .....	20	14	16	13	20	18	20	18	22	18	21	22
Miles per quart oil .....	98	49	56	42	141	143	161	130	162	132	260	260
Total Cost to Date .....	\$143.88	\$332.45	\$ 57.58	\$141.45	\$321.11	\$537.60	\$329.92	\$406.66	\$462.72	\$318.62	\$327.63	\$234.99

Driver:—Car 6, Cox; Car 9, Bathgate; Car 10, Houston and Dunning; Car 12, Brookes; Car 13, Clendenning; Car 14, Brookes; Car 15, Hilliard; Car 16, Ings and Cox; Car 17, Sauder; Car 18, Dodge and Koenen; Car 19, Branch; Car 20, Thomson

Car No. 6 is an old car. Records cover period, May 1st to August 31st. Car since sold.

Car No. 9 is an old car. Records cover period, April 1st to December 31st.

Car No. 10 is an old car. Records cover period, October 1st to November 30th only.

Car No. 12 is an old car. Records cover period, January 1st to December 31st, but used very little after end of April.

Car Nos. 13 to 20 were new cars in spring of 1924, and records cover total use of cars.

Minor repairs, oiling, greasing, tire changes, washing, etc., were done on all cars, except Nos. 10 and 17, by the persons driving them without any charge. Cars Nos. 10 and 17 were kept in public garages and all work was paid for.

# REPORT OF THE SECRETARY

Lethbridge, Alberta, January 13th, 1925.

To the Trustees:—

Gentlemen,—

Pursuant to, and in accordance with Section 28B of the Irrigation District Act, requiring the Secretary to submit a report, I submit herewith statement covering the work accomplished by the Department under my jurisdiction, together with financial statement of the District, showing receipts and disbursements and its outstanding bonded indebtedness.

The year 1924 was marked by a change from construction to operation, with corresponding changes in office routine and records, incident thereto.

Though the basic principles of the system have been preserved, a good many changes were made to adapt the records to the new condition. The decimal system of nomenclature was adopted, as being conducive to a considerable saving in time on the part of those responsible for the distribution of charges.

The routine work of the office has been handled by a staff of two, namely: The Secretary and one Accountant. This work has been of a varied nature including special stenographic work and typing, general accounting, keeping of the assessment roll and collector's roll, insurance of notices and bulletins, records of meetings, compilation of field reports, besides a considerable volume of general correspondence and filing.

During the summer months I made personal visits to a large number of the ratepayers of the District, in the work of securing pledges for the payment of rates, the results of which are tabulated as follows:

Number visited .....	173
Total amount paid .....	\$13,426.00
Number of definite pledges .....	46
Number of indefinite pledges .....	58

The balance of the number interviewed were not in a position to pledge anything.

Owing to the short time which could be spared from the office it was not possible to canvass every ratepayer personally. In a good many instances visits were made when the ratepayer was absent and consequently no report was obtained.

Many of the pledges were made for payment at time for disposal of crop. As a considerable amount of the grain, especially in the Iron Springs and Turin Districts, is still in the hands of the farmer, payment of the rates in these cases have been correspondingly deferred.

For the most part, the ratepayers interviewed, though recognizing that the payment of the rate on this, the first year of irrigation, presented a problem of no mean proportions, expressed their faith in the project and their belief that if it were possible for the Government to work out some scheme of amortization whereby the heavier payments would not fall during the early part of the life of the bonds, their success would be assured.

In connection with the routine work of the office I have to submit the following memoranda:

Letters mailed .....	3015
Letters received .....	2863
Accounts examined for which cheques issued....	2252
Interviews with ratepayers and others .....	378
Board meetings attended .....	32



In December the Assessment Roll was checked with the records in the Land Titles Office at Calgary and brought up to date.

The Head Office was moved in August at the expiration of the lease on the Standard Bank quarters and, through the courtesy of the Department of Public Works, we were allotted space in their building on 8th Street, Lethbridge.

Though a little crowded for space, these quarters are otherwise very comfortable and are granted to the District at a very nominal rental, barely sufficient to cover overhead charges.

The report of the Auditor follows:

G. H. DUNNING,  
Secretary-Treasurer.

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## AUDITOR'S REPORT

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THE BOARD OF TRUSTEES,

Lethbridge, January 17th, 1925.

The Corporation of the Lethbridge Northern Irrigation District,  
Lethbridge, Alberta.

Sirs,—

I have examined the Books and Vouchers of The Corporation of the Lethbridge Northern Irrigation District for the year ended 31st December, 1924, and beg to submit for your consideration Statement of Receipts and Expenditures for the year ended and from commencement to date, along with Statement of Expenditure on Maintenance and Operation by Units for the year ended.

These statements are in accordance with the Books, but recent events have disclosed a large number of apparent irregularities in the Accounts. These are now the subject of special investigation, and it will be necessary to make certain adjustments after the liability of the different parties concerned has been determined.

In the circumstances it does not appear to be advisable to submit any Financial Statements other than those attached hereto; but, as soon as the matters at present under investigation have been cleared up, a Balance Sheet and Revenue Account will be prepared and placed before you. In the meantime I will reserve any comments which I may have to make on the Accounts and the office organization.

Reported by

R. W. GARDNER,  
Chartered Accountant,  
Auditor to the District.

# THE CORPORATION OF THE LETHBRIDGE NORTHERN IRRIGATION DISTRICT

## STATEMENT OF RECEIPTS AND EXPENDITURES FOR THE YEAR ENDED 31ST DECEMBER, 1924, AND FROM COMMENCEMENT TO THAT DATE.

### RECEIPTS

Year Ended 31st December, 1924		Totals from Commencement to 31st December, 1924
	To Balance, 1st January, 1924:	
\$ 21,218.57	In Canadian Bank of Commerce	
	To Interest:	
	Bond Interest accrued to date of Sale:	
	\$4,400,000.00 First Sale .....	\$55,637.09
	\$1,000,000.00 Second Sale ....	8,054.80
		<hr/>
		\$ 63,691.89
	On Deposit Balances:	
	Imp. Bank of Canada, Edmonton	67,729.16
664.83	Can. Bank Commerce, Lethbridge	7,936.63
	On Loans to Alberta Government	82,717.80
		<hr/>
		\$ 222,075.48
	To Bonded Debt:	
	Proceeds of Sale of \$4,400,000.00 at 93.71% .....	4,123,240.00
	Proceeds of Sale of \$1,000,000.00 at Par .....	1,000,000.00
140,000.00	Proceeds of Sale of Short Term De- bentures, \$140,000.00 at Par .....	140,000.00
		<hr/>
		5,263,240.00
	To Premium on Bonded Debt:	
	Sale of \$1,000,000.00 at 3% Premium .....	30,000.00
	To Loans:	
325,634.21	Alberta Govt. (Treasury Dept.) ....	378,315.01
90,000.00	Bank of Montreal, Edmonton .....	90,000.00
		<hr/>
		468,315.01
	To Taxes:	
13,921.59	Taxes collected .....	13,921.59
	To Sales:	
415.24	Feed, Lumber, etc. ....	415.24
150.00	Automobiles .....	150.00
60.00	Equipment .....	60.00
		<hr/>
		625.24
	To Sundries:	
250.79	Irrigation Council .....	
1,393.50	Right-of-Way Advances Repaid ....	
428.18	Miscellaneous Advances Repaid ....	
140.34	Medical Aid Dues .....	32.77
57.92	Miscellaneous Receipts .....	57.92
		<hr/>
		90.69
	To Contractor's Deposits:	
	Sundry .....	1,965.00
	Less: Repaid .....	1,908.00
		<hr/>
		57.00
<hr/>		
\$594,335.17		<hr/>
		\$5,998,325.01

## EXPENDITURES

Year Ended		Totals from Commencement to 31st December, 1924	
31st December, 1924			
\$ 15,647.27	By Construction .....	\$4,195,086.34	
	By Engineering .....	377,751.05	
	By Administration .....	822,610.13	\$5,395,447.52
	By Property .....		69,172.01
10,677.09	Additional Structures		
17,648.98	Additional Buildings		
5,241.53	Betterment to Canals		
901.36	Betterment to Structures		
2,978.95	Rebuilding Canals		
3,979.28	Rebuilding Structures		
9,693.76	Additional Rights-of-Way		
3,822.74	Telephone System		
14,228.32	Equipment and Furniture		
	By Maintenance and Operation .....		55,626.40
10,979.46	Macleod Unit		
10,251.56	Monarch Unit		
10,702.51	Commerce Unit		
5,865.06	Picture Butte Unit		
5,312.33	Albion Ridge Unit		
7,289.01	Turin Unit		
2,272.90	Materials for Minor Repairs		
915.37	Easement Rentals		
2,038.20	Insurance		
	By General Administration .....		24,213.94
10,514.86	Salaries		
2,273.00	Trustee's Fees and Expenses		
236.07	Ratepayers' Meetings and Elections		
2,019.54	Solicitors' Fees and Legal Expenses		
364.10	Travelling Expenses		
1,492.89	Automobile Expense		
2,043.07	Rent, Light, etc.		
869.23	Printing, Stationery and Office Supplies		
235.33	Drafting Supplies		
201.88	Postage, Express, etc.		
768.18	Telegrams and Telephones		
1,183.27	Supervision of Railway Construction		
1,146.78	Interest, Discount and Exchange		
865.74	Miscellaneous		
	By Farming Operations:		
1,999.21	Sundry .....		1,999.21
	By Miscellaneous Expenditure:		
	Equipment, Field .....	\$ 19,501.23	
	Equipment, Office & Draft. Room	4,515.33	24,016.56
	By Loan Repaid:		
52,680.80	Alberta Govt. (Treasury Dept.) .....		52,680.80
	By Fixed Charges:		
329,372.49	Int. on Bonded Debt & Bank Charges thereon		329,372.49
	By Sundries:		
	Right-of-Way Agree'ts, Advances	23.85	
140.44	Workmen's Compensation Board		
	Miscellaneous .....	289.62	313.47
	By Balance: 31st December, 1924:		
	In Hands of Treasurer .....	1,703.48	
	In Bank of Commerce....	\$44,774.61	
45,482.61	Less Cheques unpres'd	1,095.48	43,679.13
			45,482.61
\$594,335.17			\$5,998,325.01

## THE CORPORATION OF THE LETHBRIDGE NORTHERN IRRIGATION DISTRICT.

Lethbridge, Alberta.

## STATEMENT OF EXPENDITURE ON MAINTENANCE AND OPERATION BY UNITS FOR THE YEAR ENDED 31ST DECEMBER, 1924.

	Macleod	Monarch	Commerce	P. Butte	A. Ridge	Turin	General	Totals
Wages .....	\$ 7,678.28	\$ 8,060.21	\$ 8,319.41	\$ 4,466.60	\$ 4,014.22	\$ 5,641.98		\$38,180.70
Automobile Expense .....	1,005.73	478.94	804.09	683.60	451.95	538.18		3,962.49
Board and Lodging .....	165.53	5.25	5.20	33.75	21.75	16.22		247.70
Horse Expense .....	1,127.89	684.93	573.64	138.47	368.82	429.23		3,322.98
Rents .....	322.89	524.50	573.75	254.85	257.00	77.51		2,010.50
Miscellaneous .....	679.14	497.73	426.42	287.79	198.59	585.89		2,675.56
Materials for Minor Repairs .....							2,272.90	2,272.90
Easement Rentals .....							915.37	915.37
Insurance .....							2,038.20	2,038.20
	\$10,979.46	\$10,251.56	\$10,702.51	\$ 5,865.06	\$ 5,312.33	\$ 7,289.01	\$ 5,226.47	\$55,626.40





